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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/775,226	02/11/2004	Chang Kyoung Yoon	3449-0303P	9985

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EXAMINER

WEISKOPF, MARIE

ART UNIT PAPER NUMBER

3661

DATE MAILED: 11/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/775,226	YOON, CHANG KYOUNG	
	<b>Examiner</b>	<b>Art Unit</b>	
	Marie A. Weiskopf	3661	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 11 February 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

### **DETAILED ACTION**

1. Claims 1-18 have been examined.

#### ***Specification***

2. The disclosure is objected to because of the following informalities:
  - Page 6, paragraph 21 – “Additionally” does not make sense, examiner suggests changing to “Additional”
  - Page 8, paragraph 24 – “According to further another embodiment...” does not make sense, examiner suggest removing the word further.

Appropriate correction is required.

#### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless – (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-11 and 13-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Maeda et al (US 6,226,589.) Maeda et al discloses a system for providing guiding information for use in detection and accessing a mobile object comprising:

- In regard to claim 1, a terminal unit for a mobile object for guiding a location to another terminal unit for a mobile object in a navigation system, which comprises of:
  - A GPS receiver (Column 6, lines 46-48)
  - A storage means (Column 6, lines 24-26). In the first discussed embodiment of the invention by Maeda et al, the storage means is not

used for storing map data, however, Maeda et al discloses using the terminal unit for creating guide information which would then require the map database to be located within the storage means. (Column 3, lines 47-55; Column 13, lines 29-32; Column 12, lines 35-37)

- A display means (Column 6, line 36)
  - A voice processing means (Column 6, line 66-Column 7, line 5)
  - An input means (Column 6, line 35-36)
  - A wireless communication means (Column 6, lines 37-38)
  - A control means (Column 6, lines 18-31)
- In regard to claim 2, the control means of the above mentioned apparatus processes the location information of the other party's moving object, received from the wireless communication means, to simultaneously output the location of the other party's moving object to the display means and the voice processing means. (Column 7, lines 1-5)
  - In regard to claim 3, a system for guiding a location of one terminal unit to another terminal unit, comprising:
    - A navigation system installed in a moving object, for displaying a current location and traveling route by using location data received from a plurality of GPS satellites and map data stored in a storage medium, requesting a location information of the other party's terminal unit, or moving object, and displaying the received location information on a map information. (Column 4, lines 57-67)

- A management center for receiving a location information request message of the other party's moving object requested by the navigation system, checking a location information sharing of the other party's moving object, tracking a location information of a navigation system whose location information is shared, and transmitting the tracked location information to the navigation system. (Column 7, lines 42-59)
  - A mobile communication network for performing a mobile communication of the navigation system. (Column 4, lines 41-42)
- In regard to claim 4, the navigation system requests a location information on a plurality of moving objects, matches the received location information on the plurality of moving objects with the map information and displays the matched information. (See Figure 11)
- In regard to claim 5, the other party's moving object is a navigation system installed in a corresponding moving object or a mobile terminal carried by the user of the other party's moving object. (Column 4, lines 36-42)
- In regard to claim 6, the navigation system informs the user of the location information of the other party's moving object in a voice. (Column 7, lines 1-5)
- In regard to claim 7, a method for guiding a location of a terminal unit to another terminal unit in a navigation system, comprising the steps of:
  - Selecting an identification information of the other party's navigation system in a user's navigation system and transmitting a location

information request message on the other party's moving object. (See Figure 9, S21)

- Receiving the location information request message of the other party's moving object at the user's navigation system, matching the location of the other party's moving object with a map information and displaying the matched information. (See Figure 9, S28)
- In regard to claim 8, the location information of the other party's moving object is periodically updated and reflected on the currently displayed map information. (Column 12, lines 37-50)
- In regard to claim 9, the method of claim 7 mentioned above further comprises:
  - Requesting a traveling route which sets the location of the other party's moving object, displayed on the map information, as a target route (See Figure 9, S27-S28)
  - Matching the location of the other party's moving object and a current location with the map information to provide the shortest traveling route. (See Figure 9, S27-S28)
- In regard to claim 10, the location information request message includes a telephone number of the navigation system installed in the other party's moving object, a subscriber information and a transmission location. (Column 8, lines 1-14)

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- In regard to claim 11, the location information reception message includes a location information of the navigation system installed in the other party's moving object, a recipient information and a map information. (See Figure 9, S25-S28)
- In regard to claim 13, the method of claim 7 mentioned above, further comprising:
  - Receiving the location information request message of the other party's moving object through a mobile communication network. (See Figure 9, S22)
  - Extracting a telephone number of the navigation system contained in the received location information request message and checking whether or not the telephone number is registered as a location information sharing. (Column 9, lines 15-45)
  - If the telephone number is registered as the location information sharing, tracking the location information of the other party's navigation system and storing the tracked location information of the other party's navigation system. (See Figure 9, S27-S28)
- A method of guiding a terminal unit to another terminal unit's location in a navigation system, comprising the steps of:
  - Selecting respective identification information of the other party's navigation systems in a user's navigation system, and transmitting location information request message. (See Figure 9, S21)

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- Receiving the location information request messages of the other party's moving objects at a management center, tracking the location information, and transmitting the information messages. (See Figure 9, S21-S22)
  - Receiving the location information message at the user's navigation system, matching the locations of the other party's moving objects with a map information and displaying the matched information. (See Figure 9, S27)
- In regard to claim 15, the location information request message includes telephone numbers of the navigation systems, information on the user who requests the location information and a current transmission location. (Column 8, lines 2-38)
- In regard to claim 16, the location information reception message includes location information of the navigation system, recipient information and map information corresponding to the location information. (Column 8, lines 2-38)
- In regard to claim 17, if the location information message is received at the traffic information center, a magnification of a current map information is adjusted in order to display all locations of the other party's mobile objects contained in the location information message, matching all location information of the other party's moving objects and displaying the matched information. (Column 10, lines 22-33)
- In regard to claim 18, the location information of the other party's moving objects is periodically updated and the magnification of the map information is readjusted



on the updated location information of the other party's moving objects. (Column 10, lines 22-33)

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Maeda et al (US 6,226,589) in view of Theimer et al (US 6,240,363.) Maeda et al fails to disclose the request and reception messages being short message service (SMS). Themier et al discusses using short message services for transmitting route data to a navigation device via a mobile radio network short message service. (Column 5, lines 61-65) It would have been obvious to one having ordinary skill in the art at the time of the invention to use short message service for the request and reception messages because it is well known in the field and would be easily implemented.

***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- US 6,868,333 to Melen discloses a group interaction system for interaction with other vehicles of a group.
- US 6,838,998 to Brown et al discloses a multi-user global position tracking system and method.

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- US 6,549,768 to Fraccaroli discloses a mobile communications matching system where when there is a match of matching profiles, the two persons are put in contact or advised of each other through a phone call or other communications method.
- US 6,441,752 to Fomukong discloses a method and apparatus for locating mobile units tracking another or within a prescribed geographic boundary.
- US 5,450,329 to Tanner discloses a vehicle location system and method whereby the position coordinates of a vehicle are made available to other vehicles.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marie A. Weiskopf whose telephone number is (571) 272-6288. The examiner can normally be reached on Monday-Thursday between 7:00 AM and 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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